

I claim:

1. A process for producing a fertilizer impregnated with an agriculturally active chemical comprising contacting a particulate fertilizer with a liquid impregnating composition comprising at least 5 wt.% of the agriculturally active chemical dissolved in an organic liquid carrier having a flash point above ~38° C (100° F) and exhibiting a Primary Irritation Score under 16 CFR 1500.3(c)(4) of 5 or less.

2. The process of claim 1, wherein the impregnating composition comprises at least 10 wt.% of the agriculturally active chemical and further wherein the organic liquid carrier exhibits a Primary Irritation Score under 16 CFR 1500.3(c)(4) of 1.5 or less.

3. The process of claim 2, wherein the organic liquid carrier is a pyrrolidone, lactone or mixtures thereof.

4. The process of claim 3, wherein the organic liquid carrier is N-methyl pyrrolidone, γ -butyrolactone or mixtures thereof.

5. The process of claim 4, wherein the organic liquid carrier is N-methyl pyrrolidone.

6. The process of claim 5, wherein the agriculturally active chemical is prodiamine.

7. The process of claim 6, wherein the liquid impregnating composition contains 10-50 wt.% prodiamine.

8. The process of claim 7, wherein the particulate fertilizer is a lawn fertilizer having a particle size of about 6.5 mm to 0.25 mm and a bulk density of about 0.05 to 1.5 gms/cc.

9. The process of claim 8, wherein the liquid impregnating composition is sprayed on the particulate fertilizer in an amount to provide a fertilizer product containing about 0.1 to 2 wt.% prodiamine.

10. A fertilizer product comprising a particulate fertilizer substrate impregnated with an agriculturally active chemical, the fertilizer product containing from a trace amount to about 10 wt.% of an organic liquid carrier capable of dissolving the agriculturally active chemical in a concentration of at least 5 wt.%, the organic liquid carrier having a flash point above ~38° C (100° F) and exhibiting a Primary Irritation Score under 16 CFR 1500.3(c)(4) of 5 or less.

11. The fertilizer product of claim 10, wherein the fertilizer product contains about 0.01 wt.% to 5 wt.% of the organic liquid carrier.

12. The fertilizer product of claim 11, wherein the fertilizer product contains about 0.2 to 1.5 wt.% of the organic liquid carrier.

13. The fertilizer product of claim 10, wherein the organic liquid carrier is a pyrrolidone, lactone or mixtures thereof.

14. The fertilizer product of claim 13, wherein the organic liquid carrier is N-methyl pyrrolidone, γ -butyrolactone or mixtures thereof.

15. The fertilizer product of claim 14, wherein the organic liquid carrier is N-methyl pyrrolidone.

16. The fertilizer product of claim 15, wherein the agriculturally active chemical is prodiamine.

17. The fertilizer product of claim 16, wherein the fertilizer product contains about 0.1 to 2 wt.% prodiamine and about 0.2 to 1.5 wt.% N-methyl pyrrolidone.